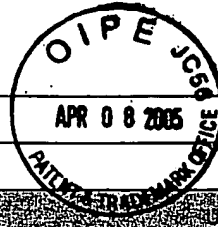


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Complete If Known

Application Number	10/628,909
Filing Date	July 29, 2003
First Named Inventor	BARAK, Lawrence
Group Art Unit	1646
Examiner Name	Unknown
Attorney Docket No:	NRK.10010

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Examiner Initials	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication (MM-DD-YYYY)	Issue Date (MM-DD-YYYY)
	Number	Kind Code (if known)			
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Examiner Signature	Nimel RK			Date Considered	4/12/07

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Group Art Unit	1646
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Attorney Docket No: NRK.10010

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Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation	
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Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
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Examiner Name	Unknown

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	Number	Kind Code (if known)		
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	Number	Kind Code (if known)			Yes	no
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Examiner Name	Unknown

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Attorney Docket No: NRK.10010

FOREIGN PATENT DOCUMENTS

Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation	
	Number	Kind Code (if known)			Yes	No
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	WO94/16684	A1	PCT	08-04-1994	x	
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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
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Examiner Signature	NSB
Date Considered	4/2/07

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First Named Inventor	BARAK, Lawrence
Group Art Unit	1646
Examiner Name	Unknown

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Examiner Signature	N. and S. B.	Date Considered	4/12/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**INFORMATION DISCLOSURE
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Application Number	10/628,909
Filing Date	July 29, 2003
First Named Inventor	BARAK, Lawrence
Group Art Unit	1646
Examiner Name	Unknown

Sheet 8 of 13

Attorney Docket No: NRK.10010

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
NBS	KLEIN, U., et al., <i>A Novel Interaction between Adrenergic Receptors and the α-Subunit of Eukaryotic Initiation Factor 2B</i> , <i>Journal of Biological Chemistry</i> , Vol. 272, No. 31, August 1, 1997, pp. 19099-19102, American Society for Biochemistry and Molecular Biology, Inc., USA		
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Examiner Signature	NBS	Date Considered	4/12/07

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Sheet 9 of 13

Application Number	10/628,909
Filing Date	July 29, 2003
First Named Inventor	BARAK, Lawrence
Group Art Unit	1646
Examiner Name	Unknown

Attorney Docket No: NRK.10010

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
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Examiner Signature	NFB
Date Considered	4/12/01

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Application Number	10/628,909
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First Named Inventor	BARAK, Lawrence
Group Art Unit	1646
Examiner Name	Unknown

Sheet 10 of 13

Attorney Docket No: NRK.10010

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
NIB	VAN SOLINGE, W.W., et al., <i>Radioimmunoassay for Sequence 38-54 of Human Progastrin: Increased Diagnostic Specificity of Gastrin-Cell Disease</i> , <i>Clinica Chmica Acta</i> , Vol. 192, 1990, pp. 35-46, Elsevier Science Publishers B.V.
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Examiner Signature	<i>Norm Ph</i>
Date Considered	<i>11/2/03</i>

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July 29, 2003

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Sheet 11 of 13

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NONPATENT LITERATURE DOCUMENTS

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*BOOK: LIDDLE, R.A., *Cholecystokinin* 1994 Raven Press, New York, USA.

~~BOOK. WALSH, J.H., Gastrin, 1993, Raven Press, New York, USA.~~

* This BOOK is not included with prior art documents. Should the Examiner require a copy, please notify applicant. [This Book in its entirety is considered relevant to this application]

**Examiner
Signature**

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Group Art Unit	1646
Examiner Name	Unknown

Sheet 12 of 13

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U.S. PATENT DOCUMENTS						
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)		
<u>PLA</u>	6,255,059		Klein, et al.	07-03-2001		
	6,100,042		Fowlkes, et al.	08-08-2000		
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<u>✓</u>	08/041,431		Fowlkes, et al., filed 3/31/93, abandoned, listed in child application 09/201,396 and patents 6,255,059 and 6,100,042			
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation	
					Yes	No
NON-PATENT LITERATURE DOCUMENTS						
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Examiner Signature	<u>Norm S...</u>	Date Considered	<u>7/1/2003</u>
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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
P/B	5,284,746 ✓	2/8/94	Sledziewski, et al.			
	5,468,854 ✓	11/21/95	McCabe, et al.			
	5,482,835 ✓	1/9/96	King, et al.			
	5,491,084 ✓	2/13/96	Chalfie, et al.			
	5,532,157 ✓	7/2/96	Fink			
	5,576,436 ✓	11/19/96	McCabe, et al.			
	5,366,889 ✓	11/1994	MacDonald, et al.			
	5,989,835 ✓	11/23/99	Dunlay, et al.			
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No
P/B	WO98/12310		PCT			

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NSB	Barak, L., et al., <i>Internal Trafficking and Surface Mobility of a Functionally Intact β_2-Adrenergic Receptor-Green Fluorescent Protein Conjugate</i> , <u>Mole Pharm.</u> 51:177-184 (1997).
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Filed 7/29/03

INFORMATION CLOSURE CITATION

PTO-1449

ATTORNEY'S DKT No.
033072-010

APPLICATION No.
09/631,468

APPLICANT
Barak et al.

FILING DATE
August 3, 2000

GROUP
1646

DEC 20 2000

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U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
NA	5,352,660	10/4/94	Pawson, A.J.	514	12	
	5,462,856	10/31/95	Lerner et al.	435	7.21	
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FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No

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NA	Goodman, O.B., et al., β -Arrestin acts as a clathrin adaptor in endocytosis of the β_2 -adrenergic receptor," <i>Nature</i> , 338:447-450 (1996).
	McConalogue, K., et al., "Cellular and Subcellular localization of G-Protein Receptor Kinases, Arrestins and G-Proteins: Implications for Receptor Regulation," <i>Gastroenterology</i> , 110(4) Supplement: A1098 AGA Abstracts. 1996
	Zuckerman, R., et al., "Sites of arrestin action during the quench phenomenon in retinal rods," <i>FEBS Let</i> , 238(2):379-84 (1988).

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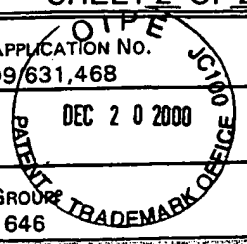
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Attachment 09/631 468 SHEET 2 OF 2

INFORMATION DISCLOSURE CITATION PTO-1449	ATTORNEY'S DKT No. 033072-010	APPLICATION No. 09/631,468
	APPLICANT Barak et al.	
	FILING DATE August 3, 2000	GROUP 1646



U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
PTW	5,912,137	6/15/99	Tsien et al.	435	15	
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	5,958,713	9/28/99	Thastrup et al.	435	7.4	
	5,968,750	10/19/99	Zolotukhin et al.	435	6	
	5,998,204	12/7/99	Tsien et al.	435	325	
	6,051,386	4/18/00	Lerner et al.	435	7.21	
	6,066,476	5/23/00	Tsien et al.	435	69.7	

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						Yes	No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER <i>N. S. S. S.</i>	DATE CONSIDERED <i>4/10/02</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Attorney Docket No: 5405-140		Serial No.: 08/869,568 10/628909	
				Applicant: Barak et al.			
				Filing Date: 5 June 1997		Group: 1646	

U. S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

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		Document Number	Date	Country	Class	Subclass	Translation Yes No



OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
NIB 1	Barak et al., <i>Abstract #2484, Molecular Biology of the Cell</i> 7:427a (December 1996).	

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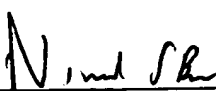
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DATE CONSIDERED 4/12/07

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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office				Attorney Docket No: 5405-140		Serial No.: 08/869,568 10/627,009	
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Applicant: Barak et al.			
				Filing Date: 5 June 1997		Group: 1646	
U. S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
 P13	1	WO 98/12310		PCT			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
 P13	2	Yokoe and Meyer, <i>Spatial Dynamics of GFP-tagged proteins investigated by local fluorescence enhancement</i> , <i>Nature Biotechnology</i> 14:1252 (October 1996).					

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PTO 892 DEAFCE 1984 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		SERIAL NUMBER <i>10/628909</i>		Art Unit		Attachment to Paper Number	
NOTICE OF REFERENCES CITED		08/869,568		1646		5	
APPLICANT(S) :BARAK et al							
U.S. PATENT DOCUMENTS							
*		DOCUMENT NUMBER	DATE	NAME(S)	CLASS	SUBCLASS	FILING DATE
	A	US 5,366,889	Nov. 22, 1994	MacDonald et al	435	252.3	Nov. 30, 1992
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*		DOCUMENT NUMBER	DATE	COUNTRY	NAME(S)	CLASS	SUBCLASS
		OTHER REFERENCES AUTHOR, TITLE, PERTINENT PAGES, ETC					Public Availability Date
	B	Cubitt, A. B. et al., Understanding, Improving and Using Green Fluorescent Proteins. Trends in Biochemical Sciences, pages 448-455					1995
	C	Harris, E. L. V. et al, Protein Purification Methods, Oxford University Press, New York. Pages 12-18					1990
EXAMINER Nirmal S. Basi <i>N. S. Basi</i>			DATE 5/28/98 <i>9/12/07</i>		* A COPY OF THIS REFERENCE IS NOT BEING FURNISHED WITH THIS OFFICE ACTION. (SEE MPEP SECTION 707.05(a). PAGE 1 OF 1		

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Attorney Docket Number
5405-140CT1

Serial No.
To be assigned

LIST OF DOCUMENTS CITED BY APPLICANT

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Applicants: Barak et al.

Filing Date: Concurrently herewith

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Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
WMB	1	5,284,746	2/8/94	Sledziewski et al	435	6	2/8/90
WMB	2	5,468,854	11/21/95	McCabe et al	540	498	7/22/93
	3	5,482,835	1/9/96	King et al	435	6	6/3/93
	4	5,491,084	2/13/96	Chalfie et al	435	189	9/10/93
	5	5,532,157	7/2/96	Fink	435	240.2	1/3/94
	6	5,576,436	11/19/96	McCabe et al	546	156	3/2/94
	7	5,366,889	11/22/94	MacDonald et al	435	252.3	10/30/92
	8	5,989,835	11/23/99	Dunlay et al.	435	7.2	2/27/97

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
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L	10	WO98/12310		PCT			

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WMB	11	L.S. Barak et al.; <i>Internal Trafficking and Surface Mobility of a Functionally Intact β_2-Adrenergic Receptor-Green Fluorescent Protein Conjugate</i> , <u>Mole. Pharm.</u> 51:177-184(1997)
	12	L.S. Barak et al.; <i>The Conserved Seven-Transmembrane Sequence NP(X)_{2,3}Y of the G-Protein-Coupled Receptor Superfamily Regulates Multiple Properties of the β_2-Adrenergic Receptor</i> , <u>Biochem.</u> 34:15407-15414 (1995)
	13	L.S. Barak et al.; <i>A Highly Conserved Tyrosine Residue in G Protein-coupled Receptors is Required for Agonist-mediated β_2-Adrenergic Receptor</i> , <u>J. of Biological Chem.</u> 269, No. 4:2790-2795 (1994)
	14	S.S.G. Ferguson et al.; <i>Role of Phosphorylation in Agonist-promoted β_2-Adrenergic Receptor Sequestration</i> , <u>The J. of Biological Chem.</u> 270, No. 42:24782-24789 (1995)
	15	S.S.G. Ferguson et al; <i>Role of β-Arrestin in Mediating Agonist-Promoted G Protein-Coupled Receptor Internalization</i> , <u>Science</u> 271:363-366 (1996)
	16	S.S.G. Ferguson et al. <i>G-protein-coupled receptor regulation: role of G-protein coupled receptor kinases and arrestins</i> , <u>Can. J. Physiol. Pharmacol.</u> 74:1095-1110 (Oct. 1996)
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LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		Applicants: Barak et al.	
		Filing Date: Concurrently herewith	Group: 1646
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19	M. Ormö et al.; <i>Crystal Structure of the Aequorea victoria Green Florescent Protein</i> , <u>Science</u> 273: 1392-1295 (1996)		
20	Cubitt, A.B. et al.; <i>Understanding, Improving and Using Green Fluorescent Proteins</i> , <u>Trends in Biochemical Sciences</u> , 448-455 (1995)		
21	Harris, E.L.V. et al.; <i>Protein Purification Methods</i> , Oxford University Press, New York, Pages 12-18 (1990)		
22	Yokoe and Meyer, <i>Spatial Dynamics of GFP-tagged proteins invesitgated by local fluorescence enhancement</i> , <u>Nature Biotechnology</u> , 14:1252 (October 1996)		
23	Barak et al.; <i>Abstract #2484</i> , <u>Molecular Biology of the Cell</u> , 7:427a (December 1996)		
24	Attramadal et al.; <i>β-Arrestin2, a Novel Member of the Arrestin/β-Arrestin Gene Family*</i> , <u>The Journal of Biological Chemistry</u> , 267:25 17882-17890 (1992).		
25	Barak et al.; <i>A β-Arrestin/Green Fluorescent Protein Biosensor for Detecting G Protein-coupled Receptor Activation*</i> , <u>The Journal of Biological Chemistry</u> , 272:44 27497-27500 (1997).		
26	Ferguson et al.; <i>Molecular Mechanisms of G Protein-Coupled Receptor Desensitization and Resensitization</i> , <u>Life Sciences</u> , 62:17/18 1561-1565 (1998).		

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	Applicants: Lawrence S. Barak, Marc G. Caron, Stephen S. Gerguson, Jie Chang	
	Filing Date: Concurrently Herewith	Group To be Assigned

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Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
NSB ↓	1	5,284,746	2/8/94	Sledziewski et al.	435	6	
	2	5,468,854	11/21/95	McCabe et al.	540	498	
	3	5,482,835	1/9/96	King et al.	435	6	
	4	5,491,084	2/13/96	Chalfie et al.	435	189	
	5	5,532,157	7/2/96	Fink	435	240.2	
	6	5,576,436	11/19/96	McCabe et al.	546	156	

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
NSD	7	WO94/16684	8/4/94	PCT			

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NSB	8	L. S. Barak et al.; <i>Internal Trafficking and Surface Mobility of a Functionally Intact β_2-Adrenergic Receptor-Green Fluorescent Protein Conjugate</i> , <u>Mole. Pharm.</u> 51:177-184 (1997).
	9	L. S. Barak et al.; <i>The Conserved Seven-Transmembrane Sequence NP(X)₂Y of the G-Protein-Coupled Receptor Superfamily Regulates Multiple Properties of the β_2-Adrenergic Receptor</i> , <u>Biochem.</u> 34:15407-15414 (1995).
	10	L. S. Barak et al.; <i>A Highly Conserved Tyrosine Residue in G Protein-coupled Receptors is Required for Agonist-mediated β_2-Adrenergic Receptor</i> , <u>J. of Biological Chem.</u> 269, No. 4:2790-2795 (1994).
	11	S. S. G. Ferguson et al.; <i>Role of Phosphorylation in Agonist-promoted β_2-Adrenergic Receptor Sequestration</i> , <u>The J. of Biological Chem.</u> 270, No. 42:24782-24789 (1995).
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↓	16	M. Ormö et al.; <i>Crystal Structure of the Aequorea victoria Green Fluorescent Protein</i> , <u>Science</u> 273:1392-1395 (1996).

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Attorney Docket Number
5405-140CT

Serial No.
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Applicants: Barak et al.

Filing Date: Concurrently herewith

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NSB	1	5,284,746	2/8/94	Sledziewski et al	435	6	2/8/90
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	3	5,482,835	1/9/96	King et al	435	6	6/3/93
	4	5,491,084	2/13/96	Chalfie et al	435	189	9/10/93
	5	5,532,157	7/2/96	Fink	435	240.2	1/3/94
	6	5,576,436	11/19/96	McCabe et al	546	156	3/2/94
	7	5,366,889	11/22/94	MacDonald et al	435	252.3	10/30/92

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
NSB	8	WO94/16684	8/4/94	PCT	—	—	—
↓	9	WO98/12310		PCT	—	—	—

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

NSB	10	L.S. Barak et al.; <i>Internal Trafficking and Surface Mobility of a Functionally Intact β_2-Adrenergic Receptor-Green Fluorescent Protein Conjugate</i> , <u>Mole. Pharm.</u> 51:177-184(1997)
	11	L.S. Barak et al.; <i>The Conserved Seven-Transmembrane Sequence NP(X)_{2,3}Y of the G-Protein-Coupled Receptor Superfamily Regulates Multiple Properties of the β_2-Adrenergic Receptor</i> , <u>Biochem.</u> 34:15407-15414 (1995)
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	14	S.S.G. Ferguson et al; <i>Role of β-Arrestin in Mediating Agonist-Promoted G Protein-Coupled Receptor Internalization</i> , <u>Science</u> 271:363-366 (1996)
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Sheet 1 of 1

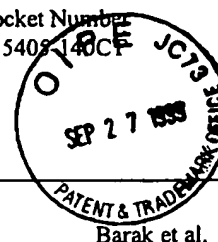
FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number
5409-140CF

Serial No.
09/233,531

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Applicants:

Barak et al.

Filing Date
20 January 1999

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1646
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Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA						
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	AC						
	AD						
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	AK						
	AL						
	AM						

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
	BA						
	BB						
	BC						

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MSB	CA	Attramadal et al.; β -Arrestin2, a Novel Member of the Arrestin/ β -Arrestin Gene Family*, The Journal Biological Chemistry 267:25 17882-17890 (1992).
J	CB	Barak et al.; A β -Arrestin/Green Fluorescent Protein Biosensor for Detecting G Protein-coupled Receptor Activation*, The Journal of Biological Chemistry 272:44 27497-27500 (1997).
J	CC	Ferguson et al.; Molecular Mechanisms of G Protein-Coupled Receptor Desensitization and Resensitization, Life Sciences 62:17/18 1561-1565 (1998).

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Sheet 2 of

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Patent and Trademark Office

Attorney Docket Number
5405-140CT

Serial No.
To be assign

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Applicants: Barak et al.

Filing Date: Concurrently herewith

1626
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To be assign

NSB	17	L. Ménard et al.; <i>Members of the G Protein-Coupled Receptor Kinase Family That Phosphorylate the Adrenergic Receptor Facilitate Sequestration</i> , <u>Biochem</u> , 35:4155-4160 (1996)
	18	M. Ormö et al.; <i>Crystal Structure of the Aequorea victoria Green Florescent Protein</i> , <u>Science</u> 273: 139 1295 (1996)
	19	Cubitt, A.B. et al.; <i>Understanding, Improving and Using Green Fluorescent Proteins</i> , <u>Trends in Biochemical Sciences</u> , 448-455 (1995)
	20	Harris, E.L.V. et al.; <i>Protein Purification Methods</i> , Oxford University Press, New York, Pages 12-18 (1990)
	21	Yokoe and Meyer, <i>Spatial Dynamics of GFP-tagged proteins invesitgated by local fluoescence enhancement</i> , <u>Nature Biotechnology</u> 14:1252 (October 1996)
	22	Barak et al.; <i>Abstract #2484</i> , <u>Molecular Biology of the Cell</u> , 7:427a (December 1996)

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Feb 7/4/03

PTO 892 DEB/FCE 1894 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				SERIAL NUMBER <div style="text-align: center; font-size: 1.2em;">10/628904</div>		Art Unit <div style="text-align: center; font-size: 1.2em;">1646</div>		Attachment to Paper Number <div style="text-align: center; font-size: 1.2em;">9</div>	
NOTICE OF REFERENCES CITED				09/233,530					
				APPLICANT(S) :BARAK et al					
U.S. PATENT DOCUMENTS									
*		DOCUMENT NUMBER	DATE	NAME(S)	CLASS	SUBCLASS	FILING DATE		
P	A	5,989,835	11/23/99	Dunlay et al	435	7.2	2/27/97		
FOREIGN PATENT DOCUMENTS									
*		DOCUMENT NUMBER	DATE	COUNTRY	NAME(S)	CLASS	SUBCLASS		
		OTHER REFERENCES AUTHOR, TITLE, PERTINENT PAGES, ETC							Public Availability Date
EXAMINER Nirmal S. Basi <div style="text-align: right; font-family: cursive;">Nsb</div>			DATE <div style="text-align: center;">3/23/00</div>		* A COPY OF THIS REFERENCE IS NOT BEING FURNISHED WITH THIS OFFICE ACTION. (SEE MPEP SECTION 707.05(a). <div style="text-align: center;">PAGE 1 OF 1</div>				

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